



Edgewood Area - Aberdeen Proving Ground, Maryland 21010-5424

U.S. Army Soldier and Biological Chemical Command

Improved Chemical Agent Monitor (ICAM)

Description: The ICAM is a hand-held, soldier-operated, post-attack device for monitoring chemical agent contamination on people and equipment. It detects vapors of chemical agents by sensing molecular ions of specific mobilities (time of flight) and uses timing and microprocessor techniques to reject interferences. The monitor detects and discriminates between vapors of nerve and mustard agents. The ICAM consists of a drift tube, signal processor, molecular sieve, membrane, confidence tester, dust filters, buzzer, and battery pack. The monitor measures 4-in. by 7-in. by 15-in. and weighs approximately 5 lb.



Mission: Identify nerve and mustard agent contamination on personnel and equipment.

Capabilities:

- Instantaneous feedback of chemical hazard level
- Quickly determine contamination (or not) of front-line assets (people and equipment)
- Reduces the need for decontamination operations
- Real-time detection of nerve and blister agents



Improvements over original CAM:

- 300% improved reliability
- 10 times faster start-up
- Reduced maintenance cost -- \$135M cost avoidance over life cycle
- Fix forward-modular repair -- eliminates need for depot repair

User: U.S. Army, U.S. Navy, U.S. Air Force, and U.S. Marine Corps.



For additional information, please contact Program Director-Detection, ATTN: AMSSB-PM-RNN-D, Aberdeen Proving Ground, MD 21010-5424. The Program Director can also be contacted by E-mail (pd.detection@sbccom.apgea.army.mil), by telephone at (410) 436-3526 or DSN 584-3526, or by fax to (410) 436-8929.